

**What is claimed is:**

1. A pointing device, comprising  
a housing;  
a first convex lens located upon the housing such that an object  
may be placed on the first convex lens;  
a light source within the housing arranged to project light on the  
first convex lens;  
a sensor located within the housing for sensing light reflected  
from the object when the object is placed on the first convex lens;  
a second convex lens located between the first convex lens and  
the sensor for focusing light reflected from the object onto the  
sensor;  
wherein said first convex lens and said second convex lens are  
arranged such that when an object contacts the first convex lens,  
light projected by the light source and reflected by the object is  
clearly focused on and detected by the sensor through the  
second convex lens; and  
wherein when the object slides over the first convex lens, the  
sensor detects a new image position so as to generate a  
corresponding electronic signal for transmission to a computer  
system.
2. The pointing device as claimed in claim 1, wherein the  
electronic signal is arranged to move a computer cursor, or scroll  
a content on a computer display.
3. The pointing device as claimed in claim 1, wherein the  
light beam evenly illuminates an entire surface of the first convex  
lens.
4. The pointing device as claimed in claim 1, wherein the  
pointing device is built-in to a housing of a computer.
5. The pointing device as claimed in claim 1, wherein the  
first convex lens is a biconvex lens.
6. The pointing device as claimed in claim 1, wherein the  
first convex lens is a single convex lens.

7. The pointing device as claimed in claim 1, wherein the first convex lens is located upon the top of the housing.
8. The pointing device as claimed in claim 1, wherein the first convex lens is located in a front end of the housing.
9. The pointing device as claimed in claim 1, wherein the first convex lens is located upon a lateral side of the housing.